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BRIDGEWATER GROUP, INC.

## **Crawford Street Corporation Site Proposed Additional PA Sampling Locations**

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DATE: April 4, 2001

This memorandum presents proposed additional sampling locations for the Crawford Street Corporation site Preliminary Assessment (PA). The additional sampling locations are based on additional features of concern observed at the site during a recent site visit.

### ***Additional Features of Concern***

On April 2, 2001, we visited the site to locate and coordinate the PA sampling program presented in our January 26, 2001, *Preliminary Assessment Sampling and Analysis Plan*. As we walked along the shoreline during the site visit, we observed three additional features of concern. These features of concern are:

- An approximate 10-inch diameter, concrete pipe daylighting from the river bank about 130 east of the west property boundary (about 45 feet east of the previously identified 8-inch diameter steel pipe).
- An approximate 12-inch diameter corrugated steel pipe daylighting from the river bank about 835 feet east of the west property boundary.
- An approximate 300 square-foot area of degraded, metal wire debris on the shoreline about 675 feet east of the west property line.

The approximate locations of these features are shown on the attached figure. Both of the pipes do not appear to currently provide flow or drainage and appear to be associated with previous uses of the property. No soil staining was observed beneath the pipes. Iron staining in the surface soil was observed in the area of the metal wire debris. The relatively low river level and associated increased access along the shoreline allowed these features to be observed during the recent site visit.

### ***Additional Sampling and Analysis***

Based on DEQ's previous demand that surface soil samples be collected from beneath where other, abandoned pipes daylight from the river bank, surface soil samples will also be collected from beneath the newly identified pipes. The samples will be collected in the same manner as for the samples collected from beneath the previously identified river bank pipes. The soil samples will be analyzed for PAHs, VOCs, and metals.

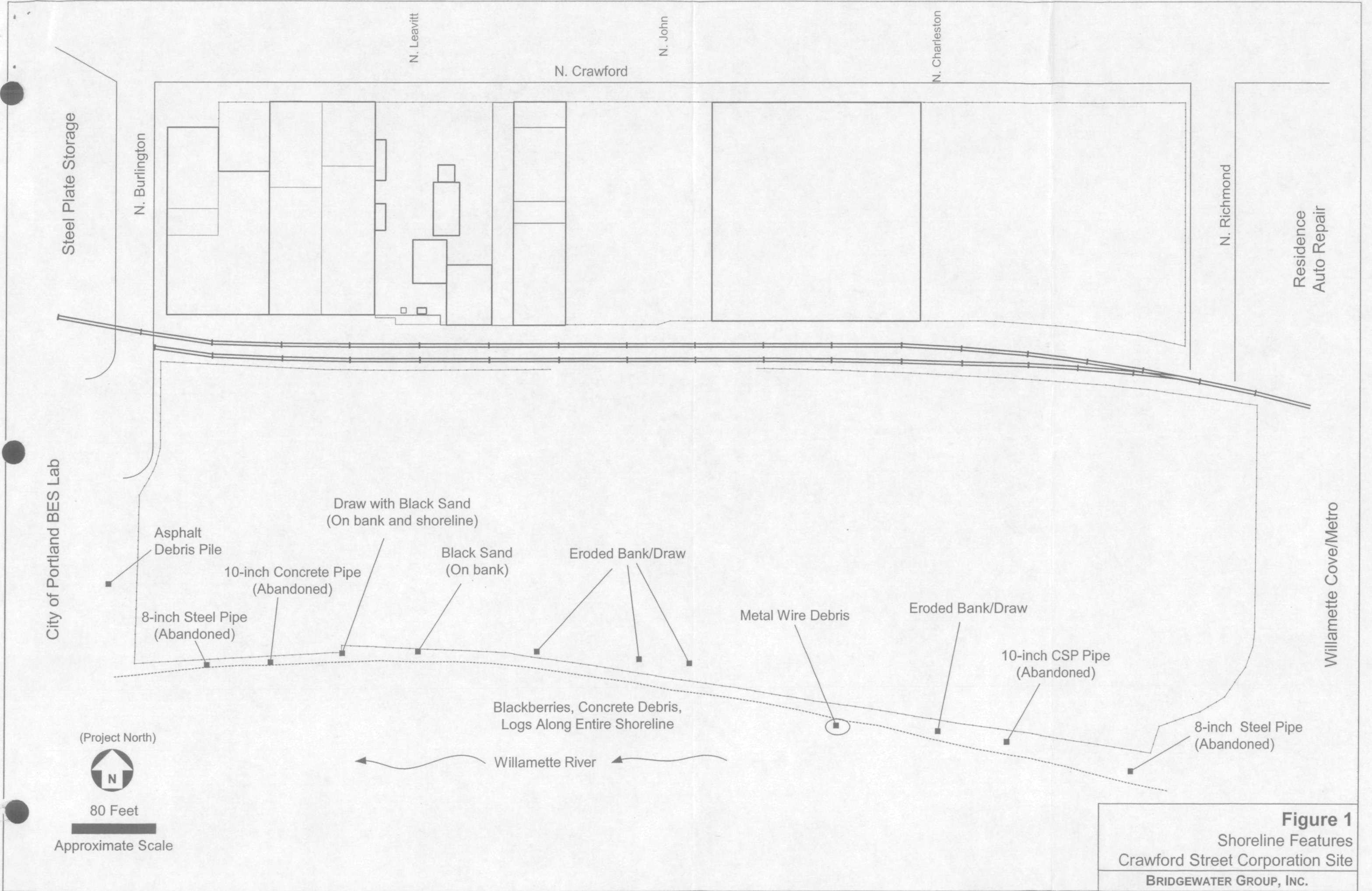
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The surface soil samples will be collected from the area of the metal wire debris. The surface soil sample will be collected from the area of the greatest density of debris and will consist of five subsamples composited into a single sample. The subsamples will be collected in a 5-point dice pattern across the area of visible iron staining using the procedures described in Section 4.1 of the *Sampling and Analysis Plan*. The surface soil sample will be analyzed for total lead, cadmium, chromium, and mercury (EPA 3000/6000/7000 series) and TCLP lead, cadmium, chromium, and mercury (EPA Method 1311/6000/7000 series).

As was noted in the March 23, 2001 letter to you from Mat Cusma, we are scheduled to start the field sampling work on Tuesday, April 10, 2001. Please call me at 503-675-5252 or Mat Cusma at 503-286-6944 if you have any questions.



**Figure 1**  
Shoreline Features  
Crawford Street Corporation Site  
BRIDGEWATER GROUP, INC.